

## PROJECT DESCRIPTION

## I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 202 AND DODGE PARK RD IN PRINCE GEORGE'S COUNTY. MD 202 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

## II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT-TURN PHASE FOR THE NORTH APPROACH OF MD 202. MD 202 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS A RIGHT-TURN OVERLAP FOR THE EAST APPROACH. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE SOUTH LEG OF MD 202 AT THIS INTERSECTION.

## EQUIPMENT LIST FOR CONTRACT NO. XX4395185

## A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9000	1	EA	[UPDATED] CONTROLLER ASC III WITH TELEMETRY
9000	1	EA	[UPDATED] CONTROLLER CABINET, SIZE S
9570	10	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
1	1	EA	M1-S(6) SHIELD ASSEMBLY (30" x 48")
9571	81	SF	[UPDATED] SHEET ALUMINUM MAST ARM /POLE MOUNTED SIGN
	2	EA	D-3(1) (VAR. x 16") MAST ARM MOUNTED (DUAL FACED)
	1	EA	D-3(1) (VAR. x 16") MAST ARM MOUNTED
	1	EA	M1-S(6) SHIELD ASSEMBLY (48" x 72") SIGNAL POLE MOUNTED
	4	EA	R-10-3(1) SIGN (9" x 15") SIGNAL POLE MOUNTED

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	2	CY	CLASS 2 EXCAVATION
2002	2	CY	TEST PIT EXCAVATION
6001	250	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	800	SF	5 INCH CONCRETE SIDEWALK
6003	72	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	26	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8007	1	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8008	4	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1	EA	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH
8014	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT (ANY SIZE)
8016	4	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8019	1	EA	MAST ARM POLE & 60' MAST ARM ANY 'T' DIMENSION
8023	6	EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000'
8024	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8026	1	EA	TWIN MAST ARM POLE & 50'/60' MAST ARMS ANY 'T' DIMENSION
8029	2	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8031	70	LF	1-CONDUCTOR ELECTRICAL CABLE, NO. 2 AWG/THHN
8034	275	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
8035	350	LF	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE TC
8038	550	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8040	475	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8041	16	LF	WOOD SIGN SUPPORTS UP TO 4' X 6'
8042	91	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8043	200	SF	REMOVE & RESET DECORATIVE BRICK SIDEWALK
8044	450	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	2	EA	WEATHER HEAD, 3 INCH
8047	20	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8048	14	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8052	60	LF	3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
8055	625	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8057	700	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8058	1300	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

## CONTACTS

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Supervisor, Sign Shop  
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Mr. Mike Stocker  
Supervisor, Signal Warehouse  
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PEPCO Engineering  
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Email: rachilcoat@pepco.com

## PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)

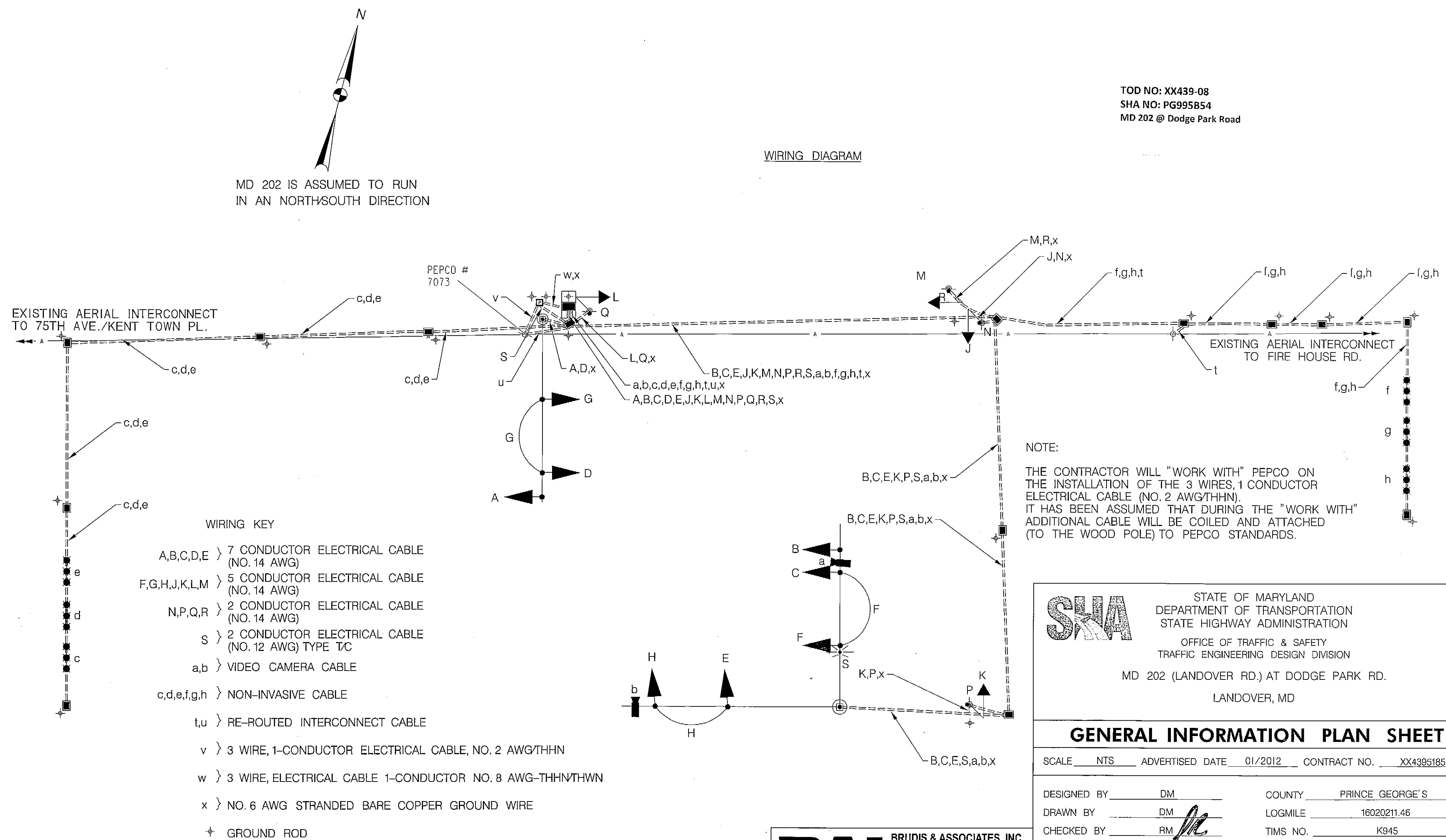
PHASE 2 AND 5	G	G	← G	← G	R	R	R	R/G→	DW	DW	WK	WK
PHASE 2 AND 5 CHANGE	G	G	← R	← R	R	R	R	R/Y→	DW	DW	DW	DW
PHASE 2 AND 6	G	G	← R	← R	G	G	R	R	DW	DW	WK	WK
PED CLEARANCE	G	G	← R	← R	G	G	R	R	DW	DW	FLDW	FLDW
2 AND 6 CHANGE	Y	Y	← R	← R	Y	Y	R	R	DW	DW	DW	DW
PHASE 4	R	R	← R	← R	R	R	G	G/G→	DW	DW	DW	DW
4 CHANGE	R	R	← R	← R	R	R	Y	Y/Y→	DW	DW	DW	DW
PHASE 4 ALT	R	R	← R	← R	R	R	G	G/G→	WK	WK	WK	WK
PED CLEARANCE	R	R	← R	← R	R	R	G	G/G→	FLDW	FLDW	FLDW	FLDW
4 ALT CHANGE	R	R	← R	← R	R	R	Y	Y/Y→	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK

## EMERGENCY VEHICLE PRE-EMPTION

6 PRE-EMPTION	G	G	← R	← R	G	G	R	R	DW	DW	DW	DW
6 PRE-EMP. CHANGE	G	G	← R	← R	G	G	R	R	DW	DW	DW	DW

TOD NO: XX439-08  
SHA NO: PG955854  
MD 202 @ Dodge Park Road

## WIRING DIAGRAM



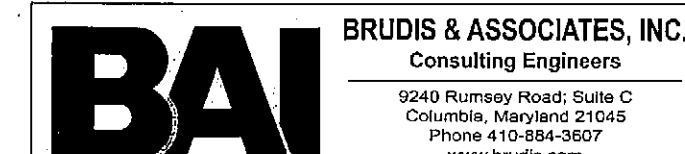
STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 202 (LANDOVER RD.) AT DODGE PARK RD.  
LANDOVER, MD

## GENERAL INFORMATION PLAN SHEET

SCALE: NTS ADVERTISED DATE: 01/2012 CONTRACT NO.: XX4395185

DESIGNED BY: DM COUNTY: PRINCE GEORGE'S  
DRAWN BY: DM LOGMILE: 16020211.46  
CHECKED BY: RM TMS NO.: K945  
F.A.P. NO.: TOD NO.:

TS NO. 660F DRAWING GG - 1 OF 1 SHEET NO. 3 OF 3



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PLOTTED: Monday, February 13, 2012 AT 03:19 PM  
FILE: P:\09-002 TED\Task 64 MD 202 @ Dodge Park\Drawings\CADD\Working\pGG-P003\_M202@Dodge.dgn